

REMARKS

Favorable reconsideration of this application as presented herein is requested. Claims 1-86 are pending in the present application.

In the May 8, 2006 Office Action, the Examiner objected to claim 78 because of the following informality: claim 78 depends on itself.

The Examiner rejected claims 1-5, 11-14, 16-23, 51-55, 61-64 and 66-73 under 35 U.S.C. § 102 (e) as being anticipated by Brunner et al (U.S. Patent No. 6,567,462).

The Examiner rejected claims 25-31, 37, 41-43, 47, 75-81 and 86 under 35 U.S.C. § 102 (e) as being anticipated by Furukawa et al (U.S. Patent No. 6,414,985).

Claims 6 and 56 were rejected by the Examiner under 35 U.S.C. § 103 (a) as being unpatentable over Brunner.

Claims 7, 15, 57 and 65 were rejected by the Examiner under 35 U.S.C. § 103 (a) as being unpatentable over Brunner in view of Furukawa.

Claims 34-36, 44-46, 84 and 85 were rejected by the Examiner under 35 U.S.C. § 103 (a) as being unpatentable over Furukawa in view of Brunner.

The Examiner objected to claims 8-10, 24, 32, 33, 38-40, 48-50, 58-60, 74 and 83 as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Objections

The Examiner objected to claim 78 because of the following informality: claim 78 depends on itself. Claim 78 has been amended to recite “the searcher of claim 77.”

Claim Rejections under 35 U.S.C. § 102

The Examiner rejected claims 1-5, 11-14, 16-23, 51-55, 61-64 and 66-73 under 35 U.S.C. § 102 (e) as being anticipated by Brunner et al (U.S. Patent No. 6,567,462).

For clarification, claims 1, 14, 51 and 64 have been amended to recite “searching for time offset information embedded in a first signal” and “searching for the time offset information in the received signal by evaluating the second correlation values.” This is not disclosed in Brunner.

In particular, Brunner teaches “means to mitigate the effect of multiple path propagation,” the “recovery of data symbols ... in spite of the presence of contemporaneously detected CDMA signals from other mobile stations” and “determining a “data symbol for the corresponding user, and output[ing] the data symbol.” (Column 8, lines 2-5 and lines 25-27 and column 9, lines 65-67.) Support for the claim amendments is found in Applicants’ specification, page 6, “[a] reduction in acquisition time may be achieved by using the same PN code to spread each pilot signal, but with a different phase offset. This approach provides sufficient channelization between the base stations because time shifted versions of the same PN code have very little correlation with one another.” Note a frequency domain is examined in order to determine the time offset information corresponding to the pilot signal. Applicants’ specification states further on page 11, “[t]he processor 408 effectively derotates and combines the partial coherent sums, and converts the result from a time-domain signal to a frequency-domain signal.” In the above amendments, claim 2, 3, 16, 17, 52, 53, 66 and 67 amendments correspond to claim 1 amendments.

The Examiner rejected claims 25-31, 37, 41-43, 47, 75-81 and 86 under 35 U.S.C. § 102 (e) as being anticipated by Furukawa et al (U.S. Patent No. 6,414,985). Claim 25 has been amended to recite “correlator configured to produce a plurality of first correlation values from first and second signals, the first correlation values comprising at least one partial coherent sum” and “processor configured to transform the first correlation values into a plurality of second correlation values each relating to a different frequency component of the first signal, wherein the processor derotates and combines the at least one partial coherent sum and converts the result from a time-domain signal to a frequency domain signal.” Claim 75 has been amended in a similar manner. Claims 25 and 75 as amended are not disclosed cited reference. Applicants’ respectfully assert that claims 25 and 75 as amended are in condition for allowance. Claims 26 through 37; and claims 76-81, 86 depend from amended claims 25 and 75, respectively, and are allowable for at least the same reasons.

Claim 41 has been amended to recite “the first correlation values comprising at least one partial coherent sum” and “wherein the means for transforming comprises means for derotating and means for combining the at least one partial coherent sum and means for converting the result from a time-domain signal to a frequency domain signal.” This is not disclosed by the

cited reference. Applicants' respectfully assert that claim 41 as amended is in condition for allowance. Claims 42, 43, and 47 depend from amended claim 41 and are allowable for at least the same reasons.

Claim Rejections under 35 U.S.C. § 103

To establish a prima facie case of obviousness three basic criteria must be met. First, there must be some suggestion or motivation of, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine the reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference(s) must teach or suggest all the claim limitations. In the above amendments, claims 6, 7, 15, 34-36, 44-46, 56-57, 65, 84 and 85 depend from at least one amended independent claim above. With the current amendments to the independent claims, the cited references fail to teach or suggest all the claim limitations. Thus, claims 6, 7, 15, 34-36, 44-46, 56-57, 65, 84 and 85 are allowable for at least the same reasons as the amended independent claims.

Specification

Applicants provide herewith amendments to the specification as required by the Examiner. The amendments to the specification are made by presenting marked up replacement paragraphs which identify changes made relative to the immediate prior version.

The changes made are primarily typographical or grammatical in nature, or involve minor clarifications of awkward wordings.

Applicants believe these changes add no new matter to the application and are fully supported by the original disclosure.

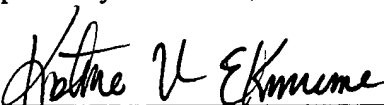
REQUEST FOR ALLOWANCE

In view of the foregoing, Applicants submit that all pending claims in the application are patentable. Accordingly, reconsideration and allowance of this application are earnestly solicited.

Should any issues remain unresolved, the Examiner is encouraged to telephone the undersigned at the number provided below.

Respectfully submitted,

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By: 

Kristine U. Ekwueme, Reg. No. 56,344
(858) 658-1901

QUALCOMM Incorporated
5775 Morehouse Drive
San Diego, California 92121
Telephone: (858) 651-4125
Facsimile: (858) 658-2502